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FIG. 1

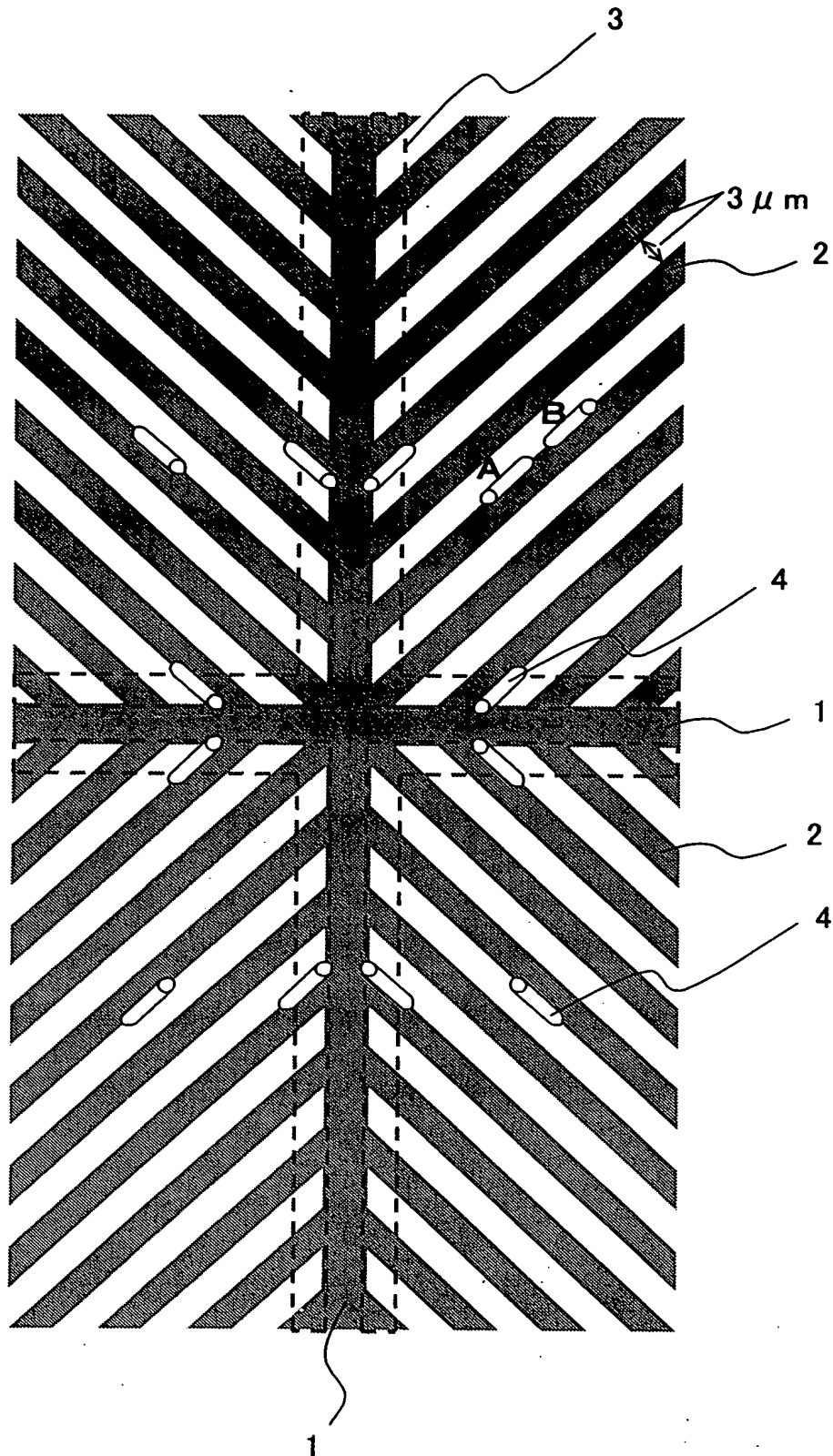


FIG. 2

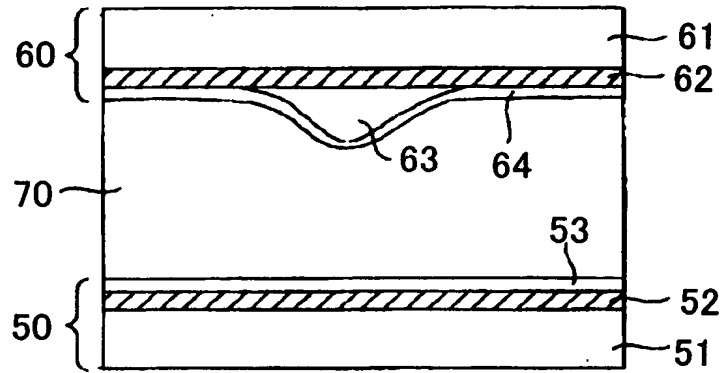
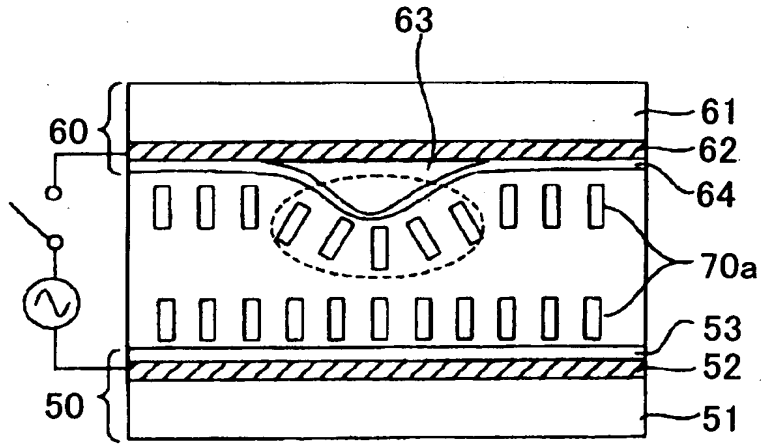
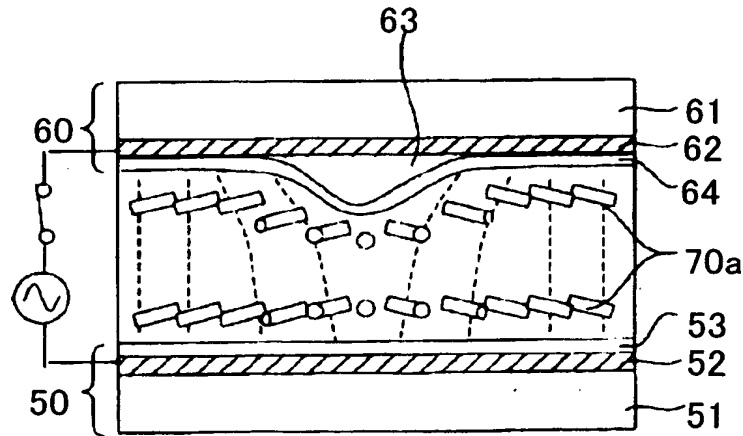


FIG. 3A



OFF

FIG. 3B



ON

FIG. 4

MVA PANEL

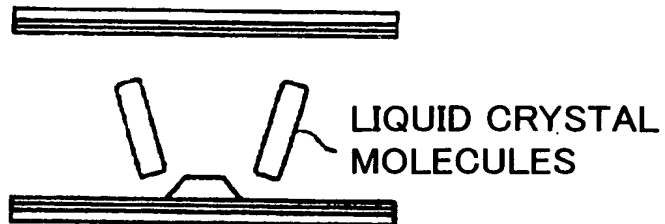


FIG. 5

IPS PANEL

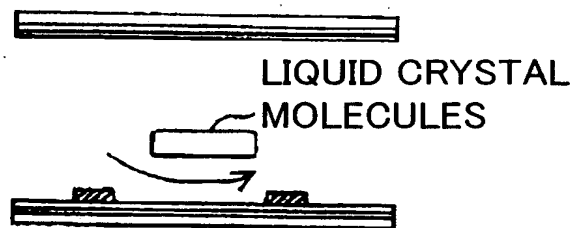


FIG. 6

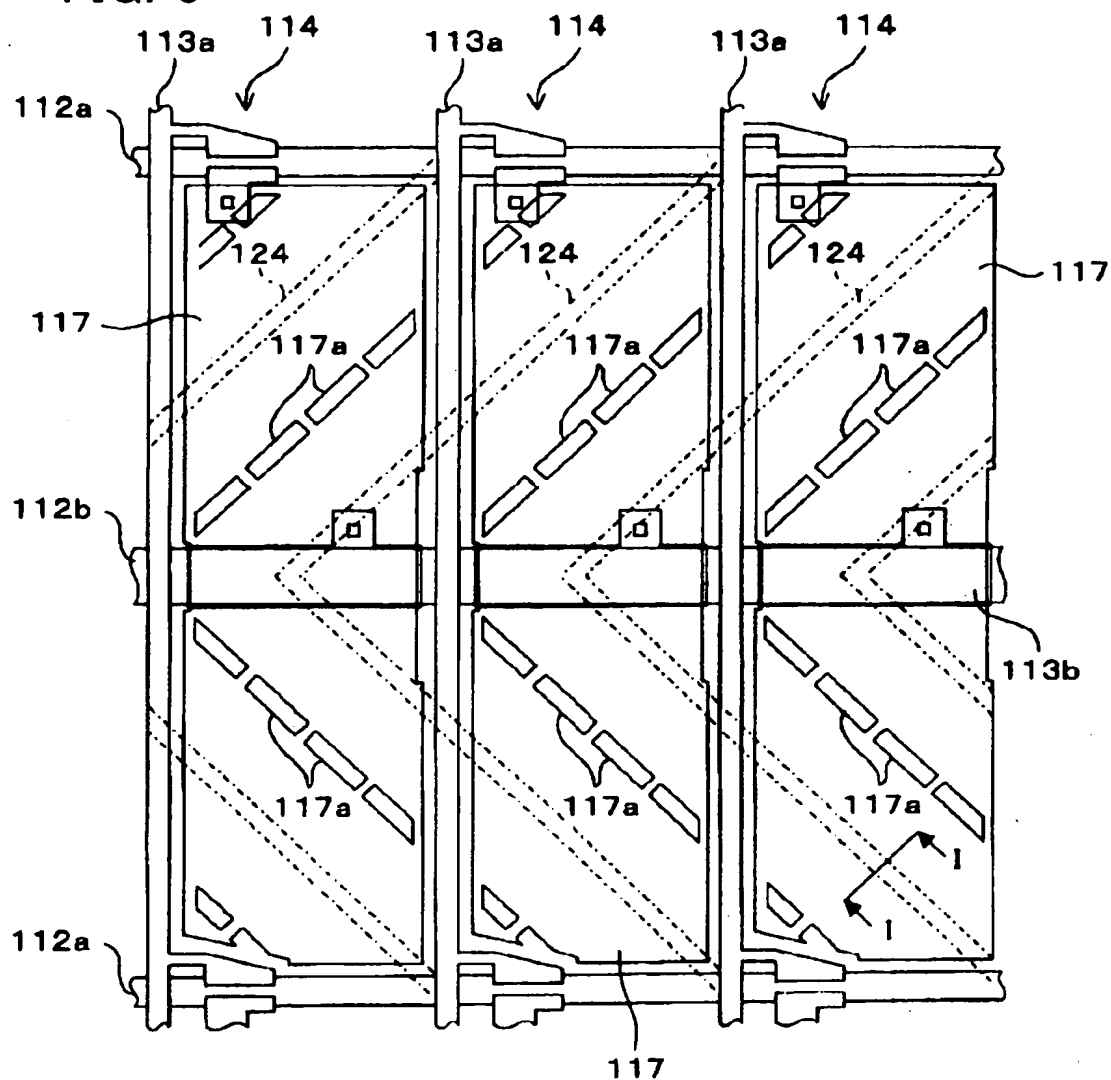


FIG. 7

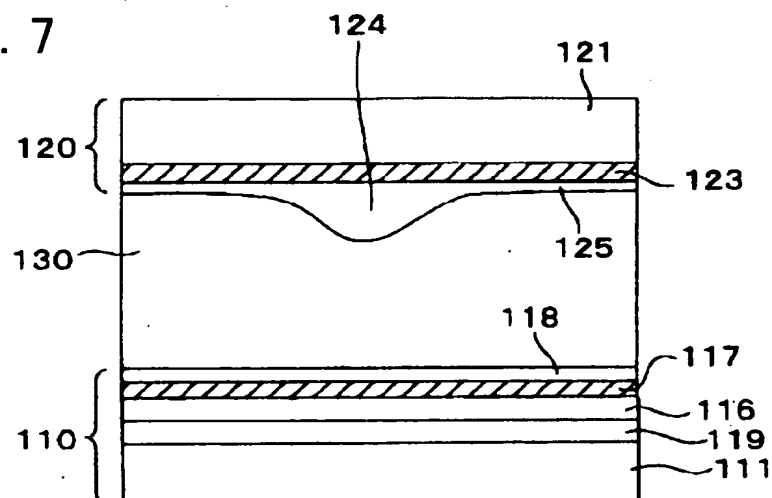


FIG. 8A

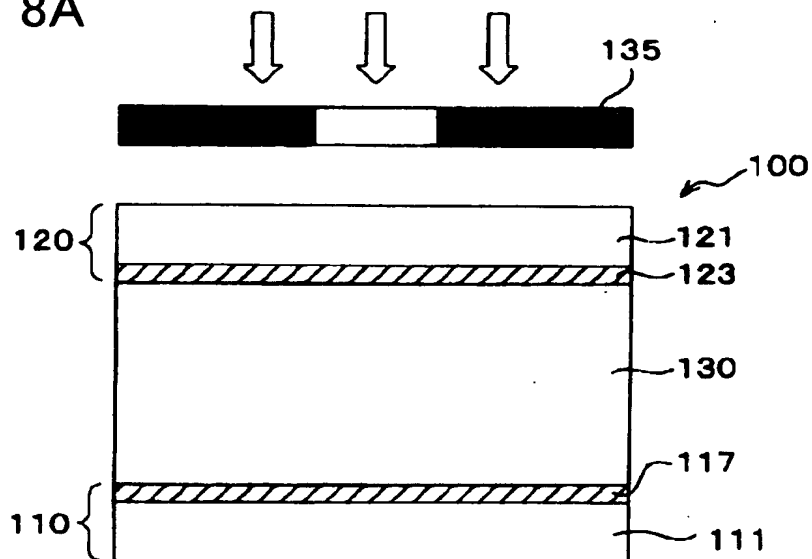


FIG. 8B

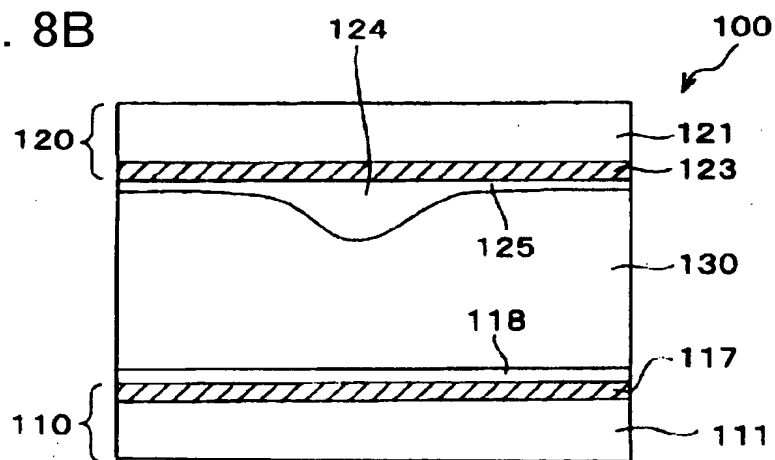


FIG. 10A

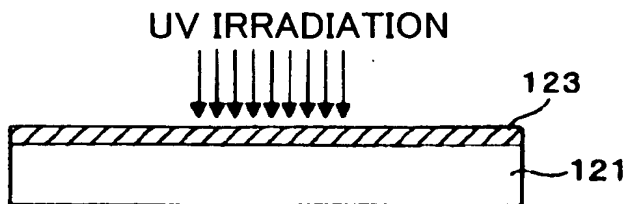


FIG. 10B

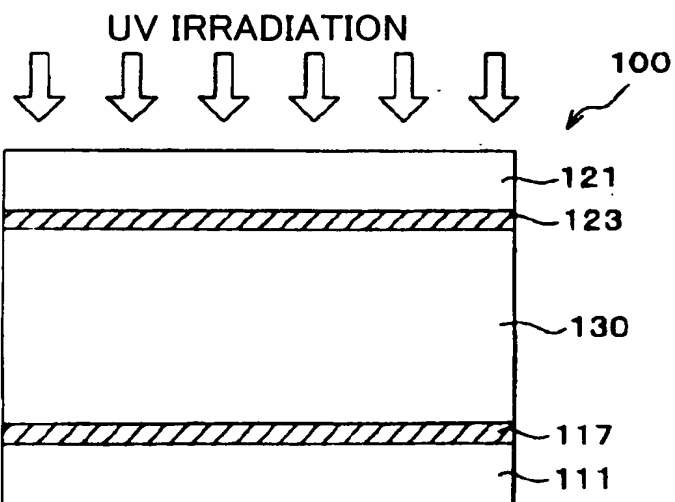


FIG. 10C

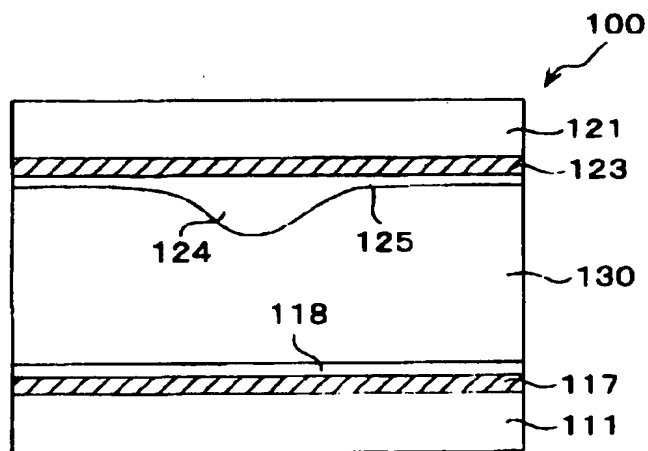


FIG. 11A

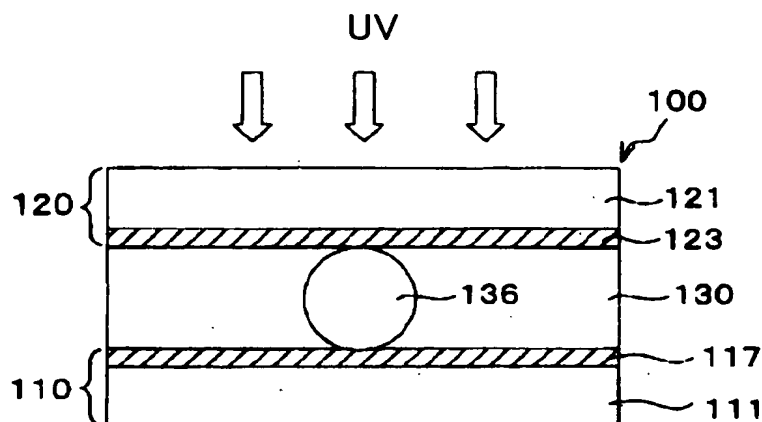


FIG. 11B

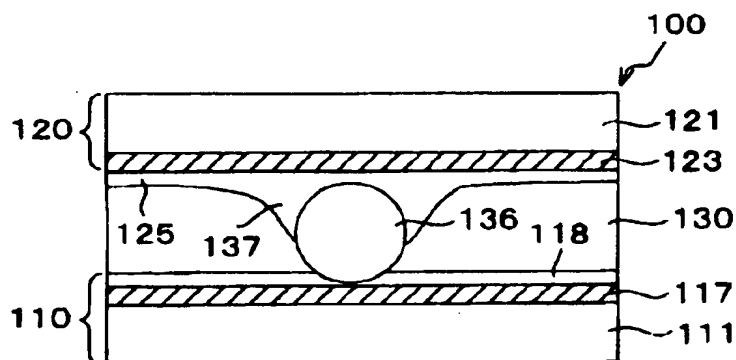


FIG. 12A

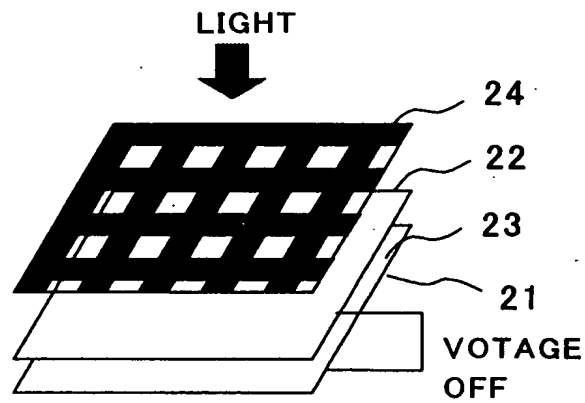


FIG. 12B

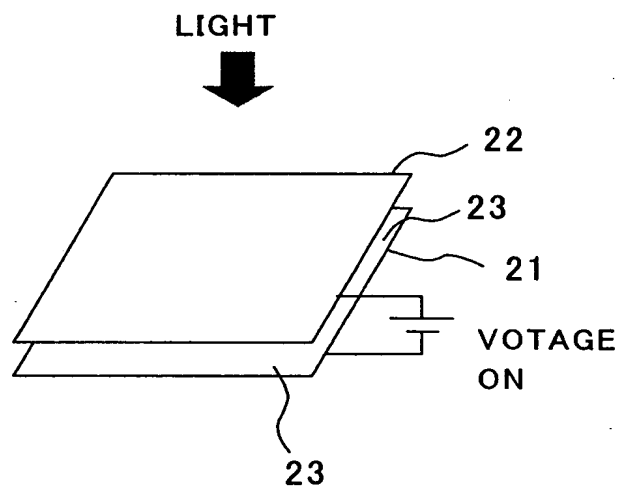


FIG. 13A

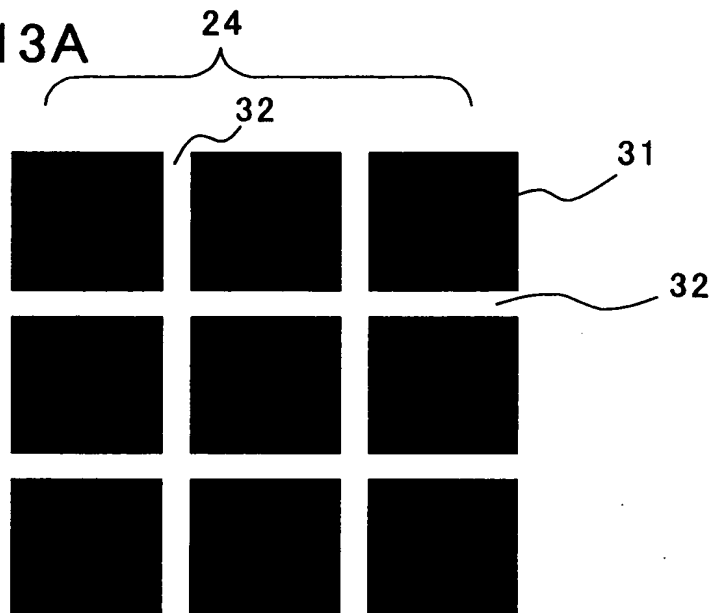


FIG. 13B

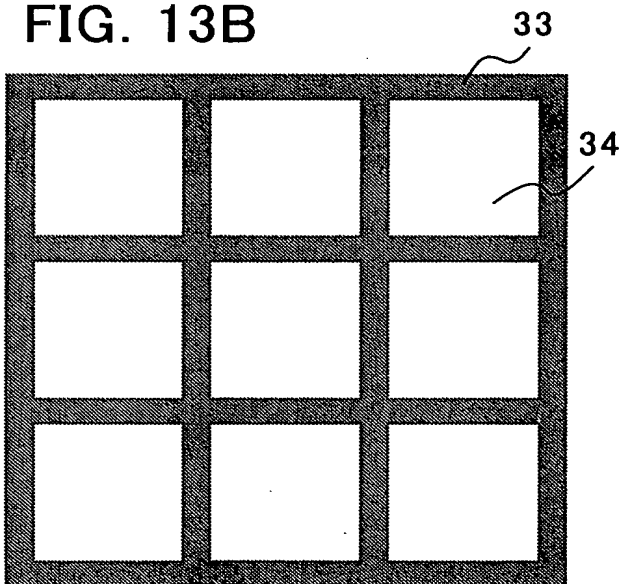


FIG. 13C

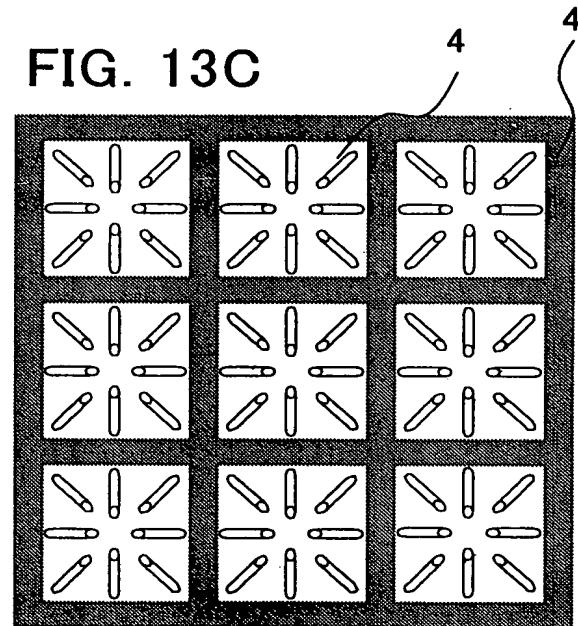


FIG. 14A

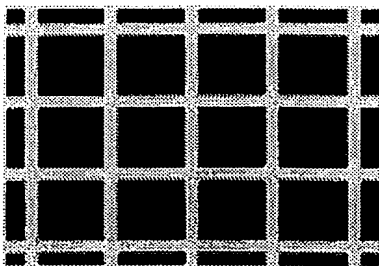
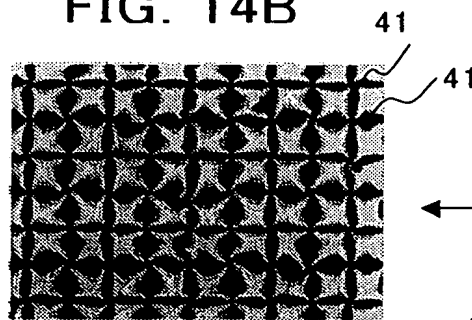
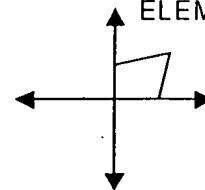


FIG. 14B



ABSORPTION
AXES OF
POLARIZING
ELEMENTS



100um

FIG. 15

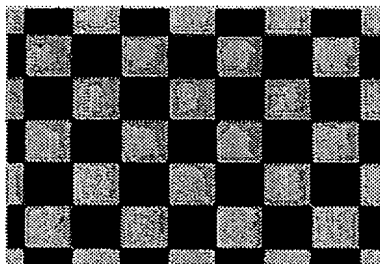
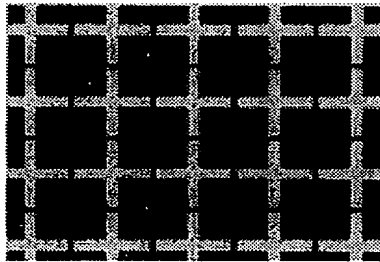
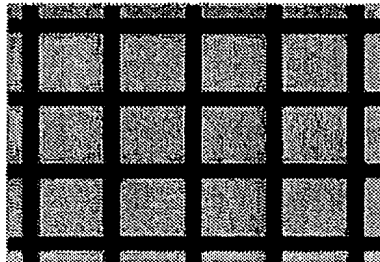
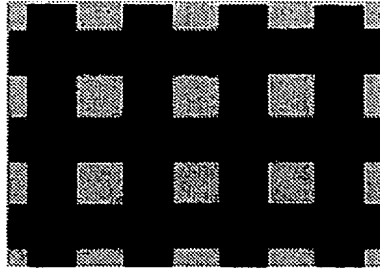


FIG. 16

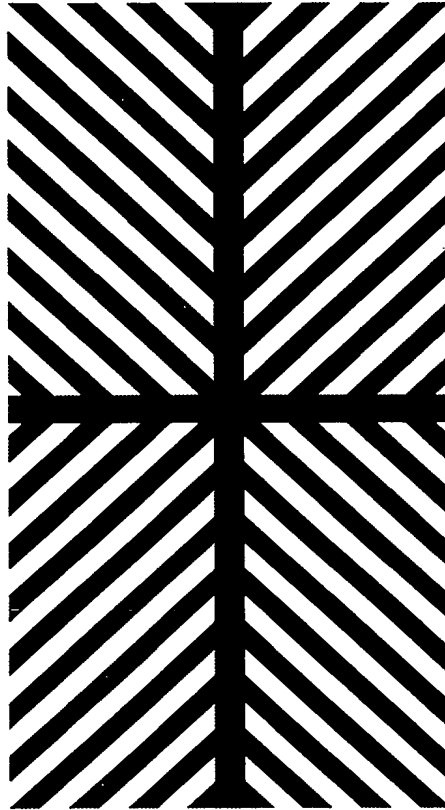


FIG. 17

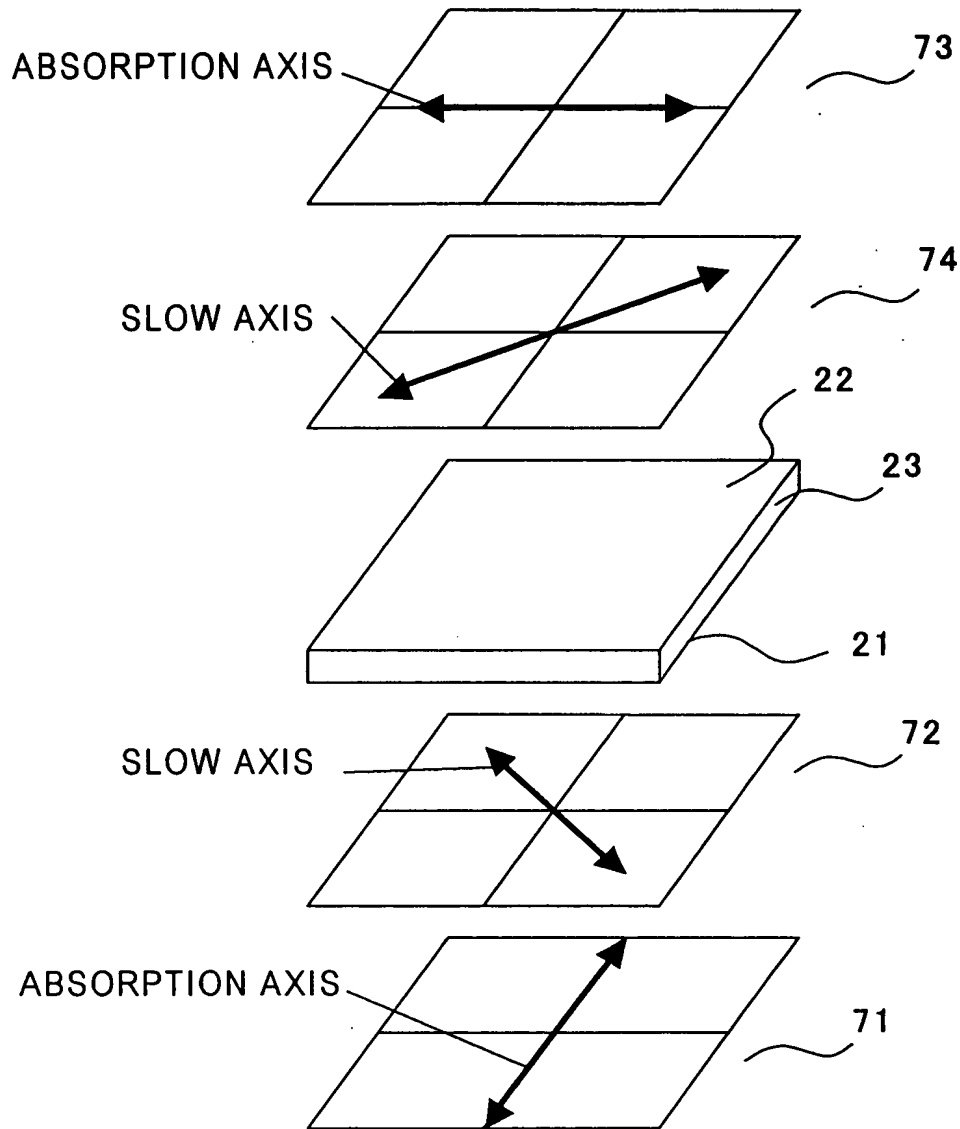


FIG. 18A

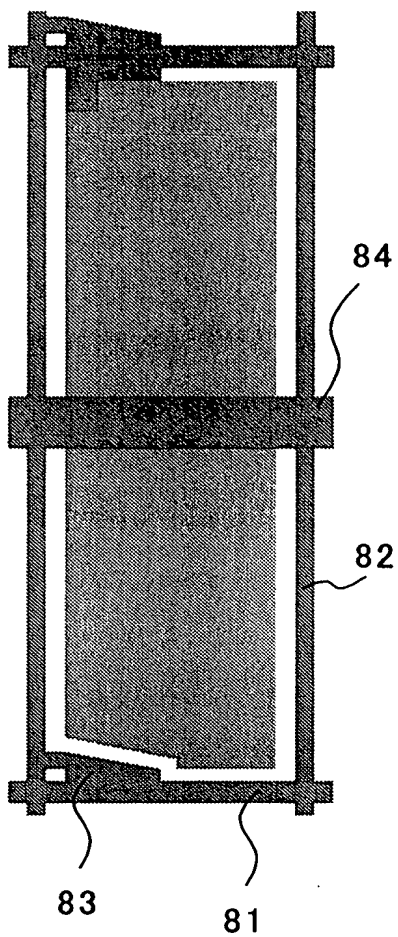


FIG. 18B

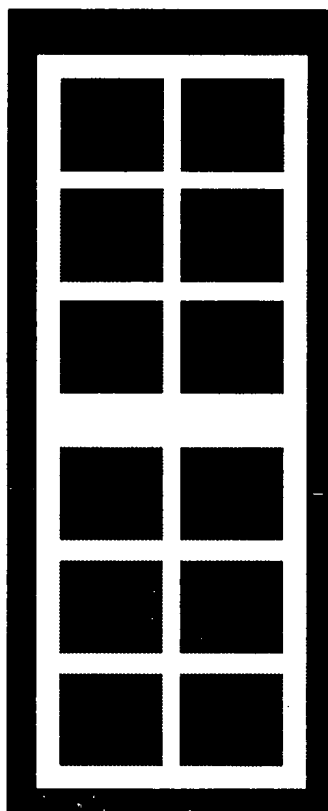


FIG. 18C

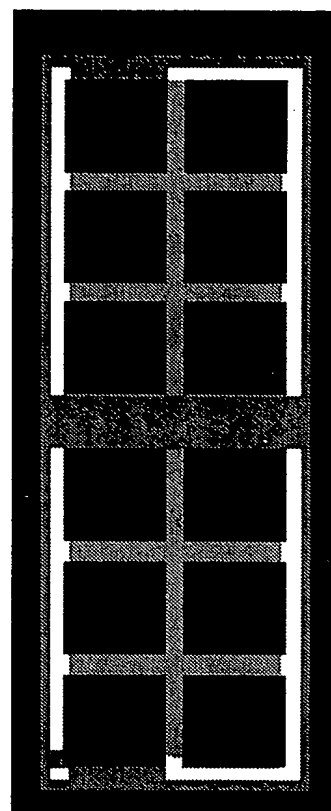


FIG. 19A

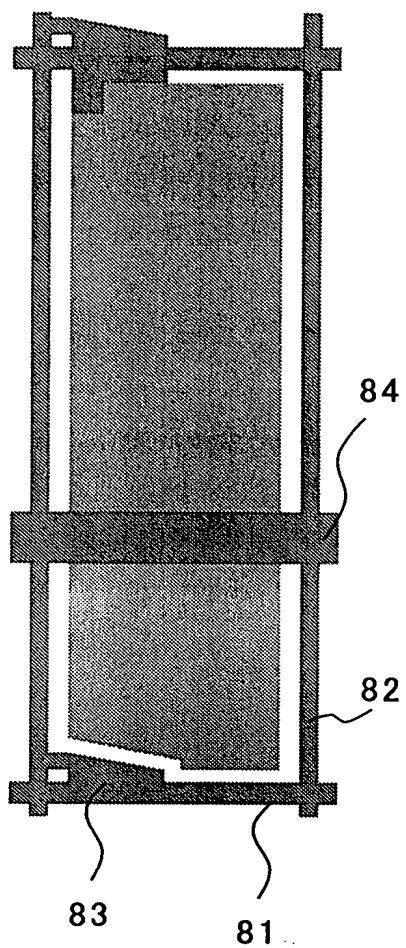


FIG. 19B

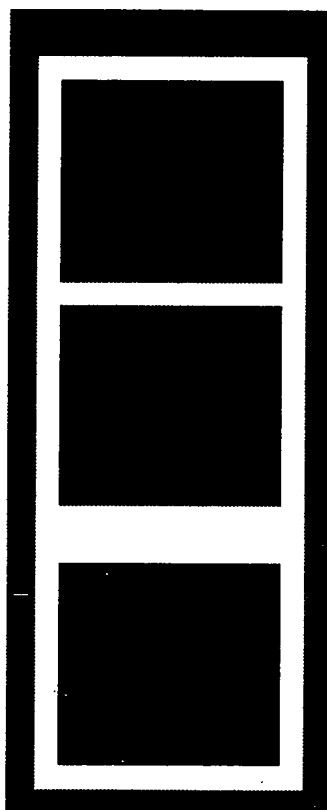


FIG. 19C

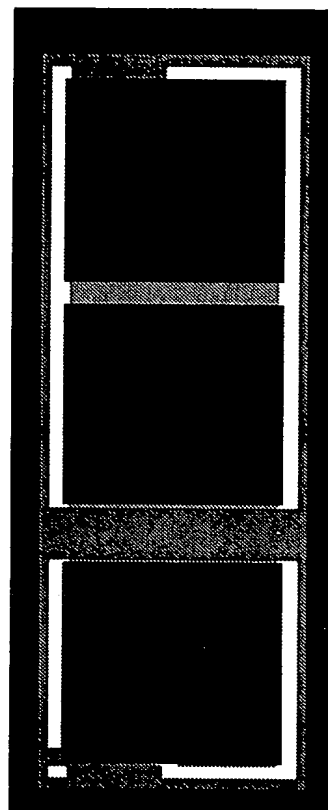


FIG. 20A

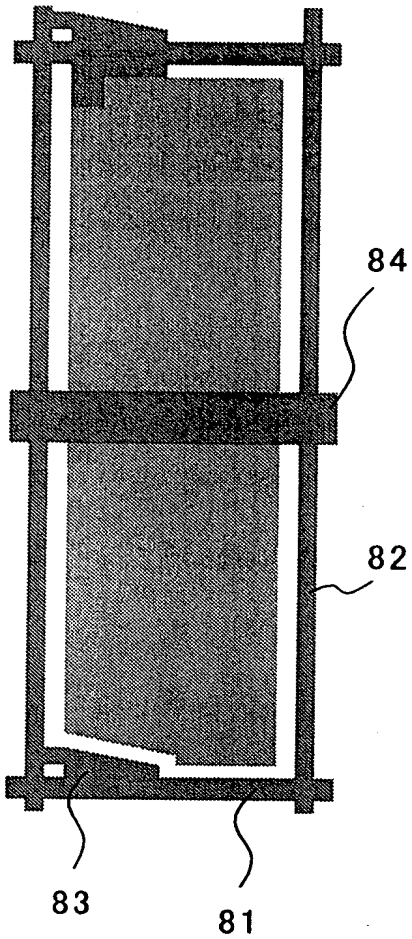


FIG. 20B

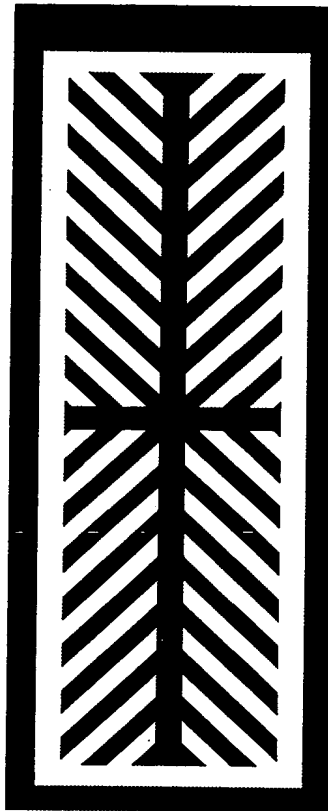


FIG. 20C

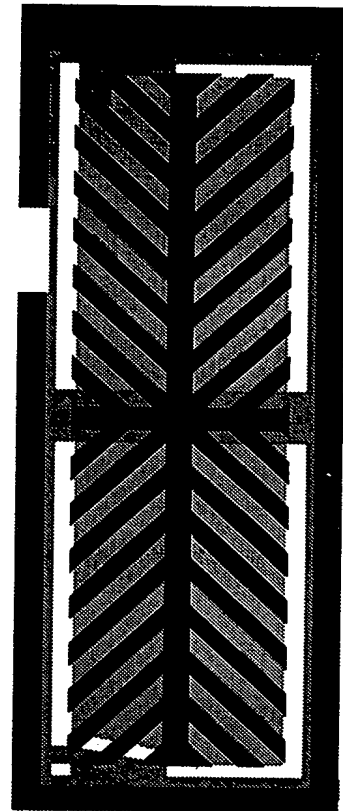


FIG. 21A

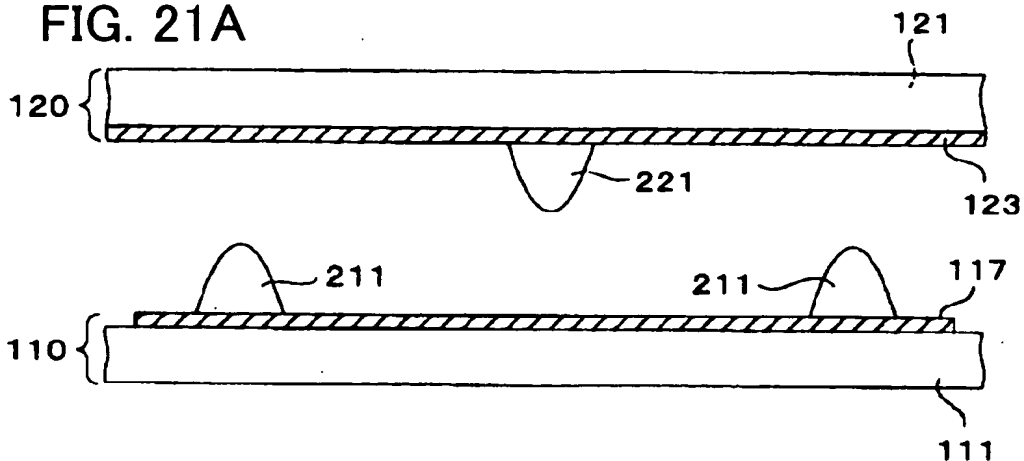


FIG. 21B

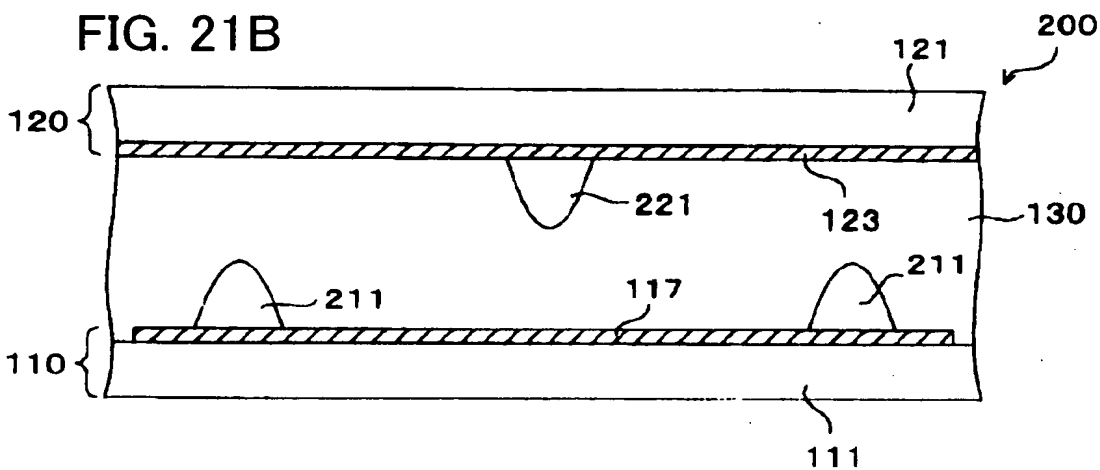


FIG. 21C

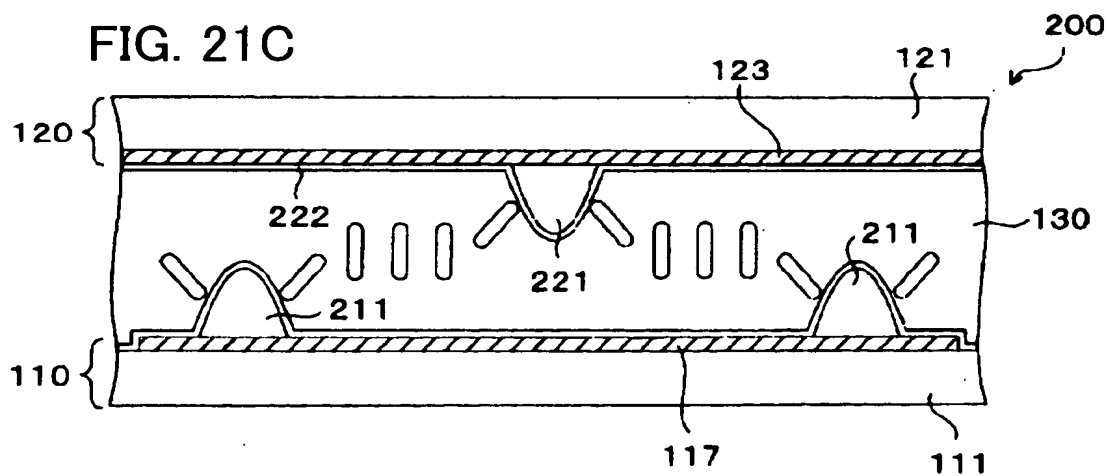


FIG. 22

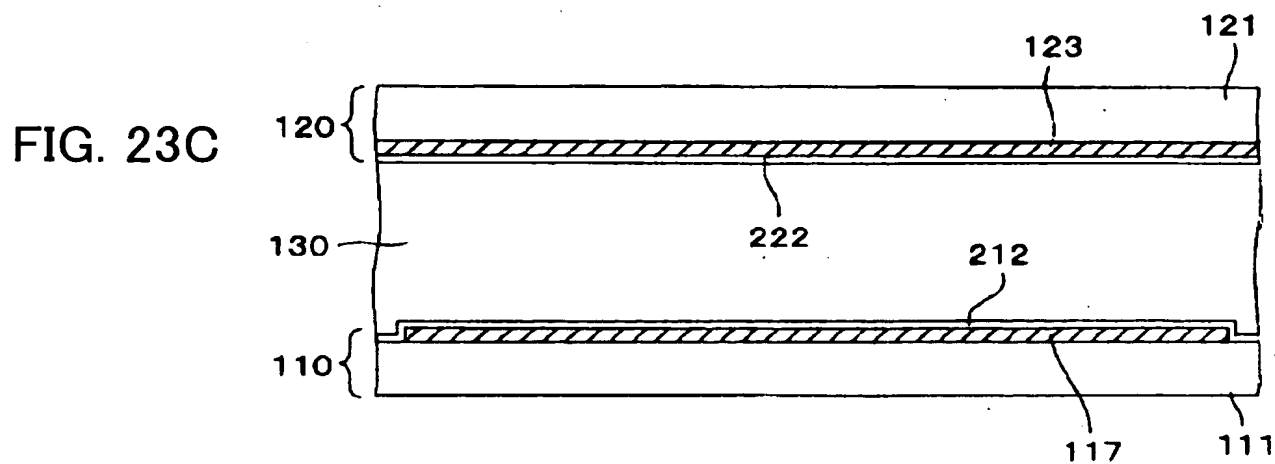
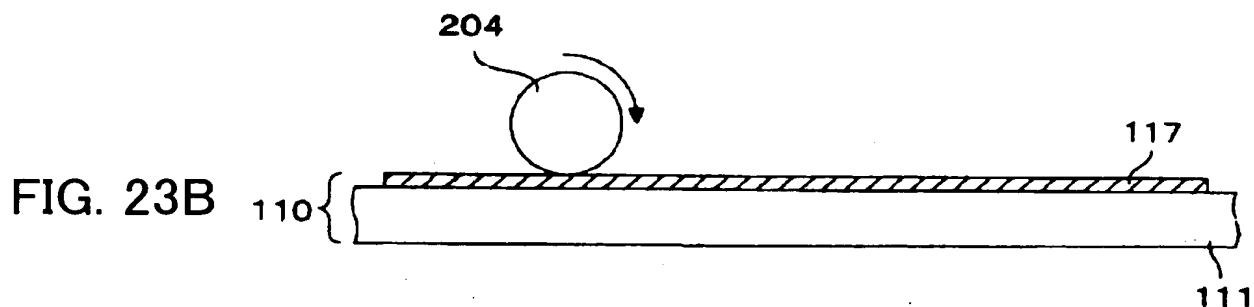
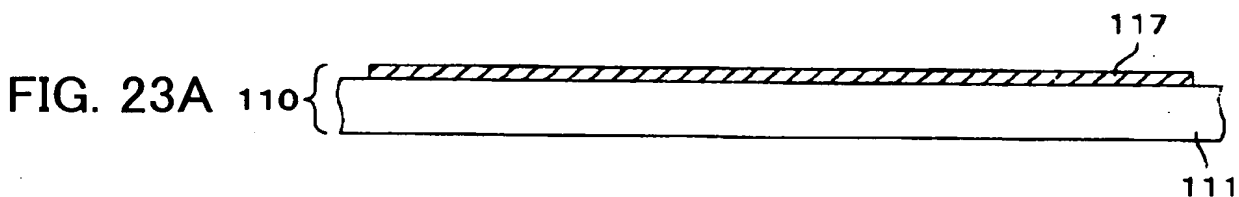
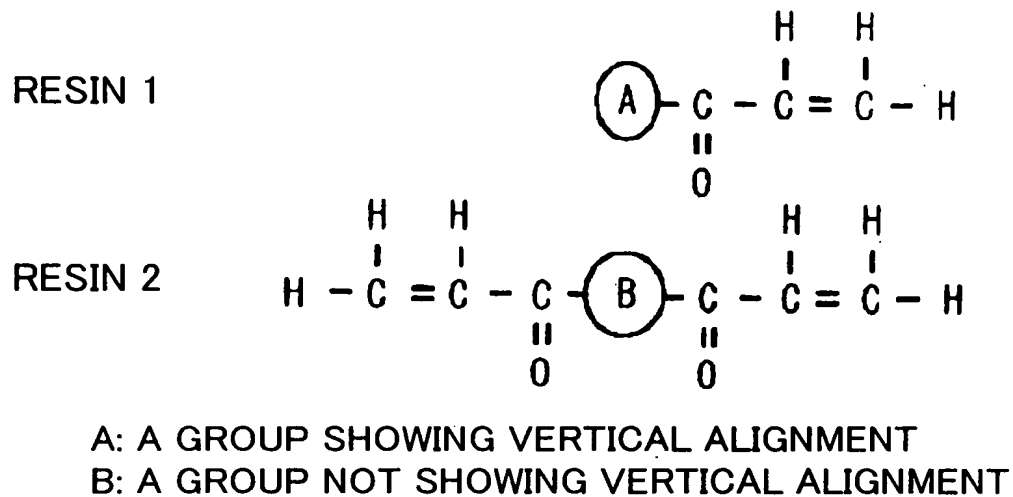
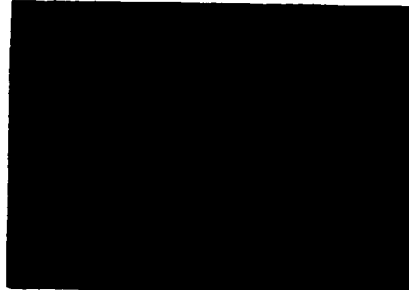


FIG. 24A



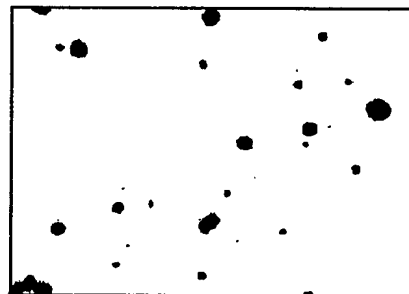
0V

FIG. 24B



2V

FIG. 24C



3V

FIG. 25

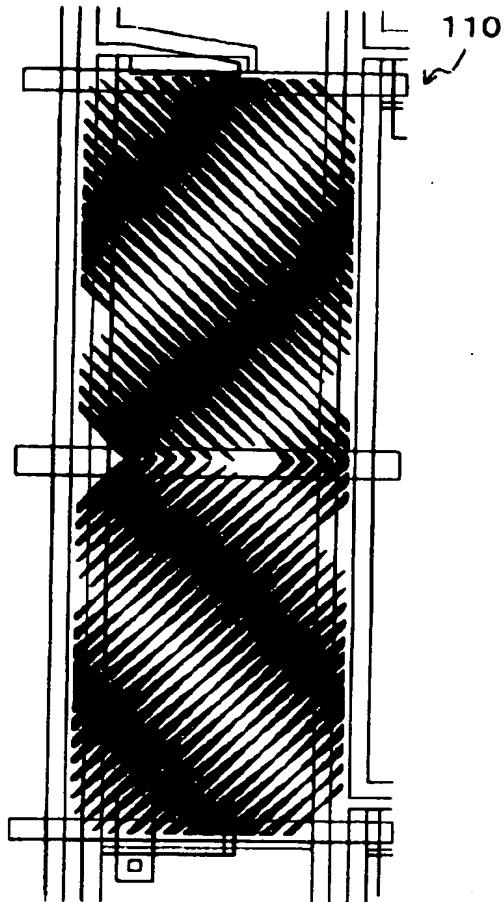


FIG. 26A

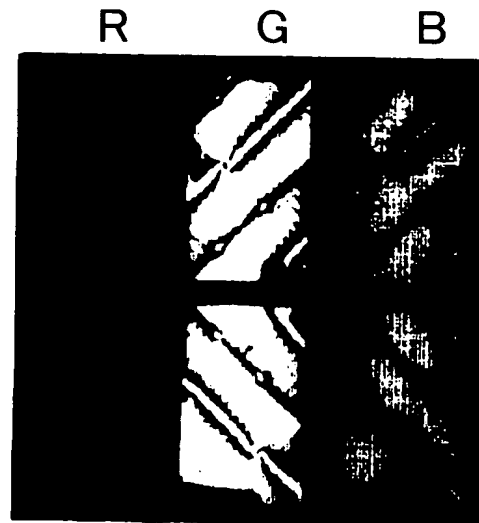


FIG. 26B



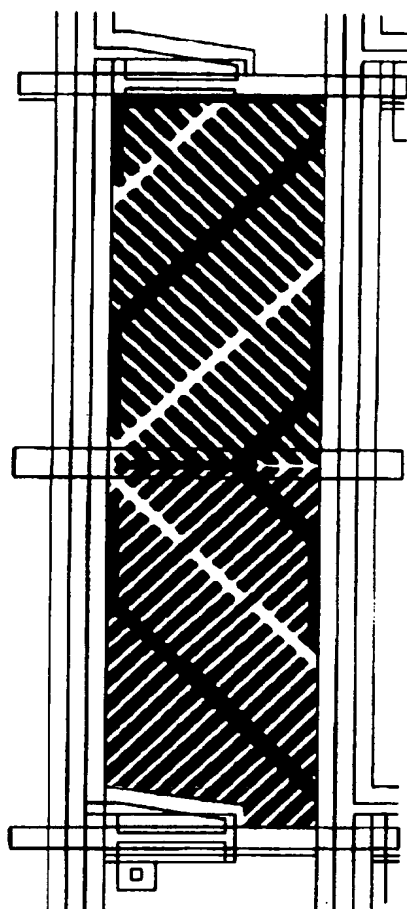


FIG. 27A

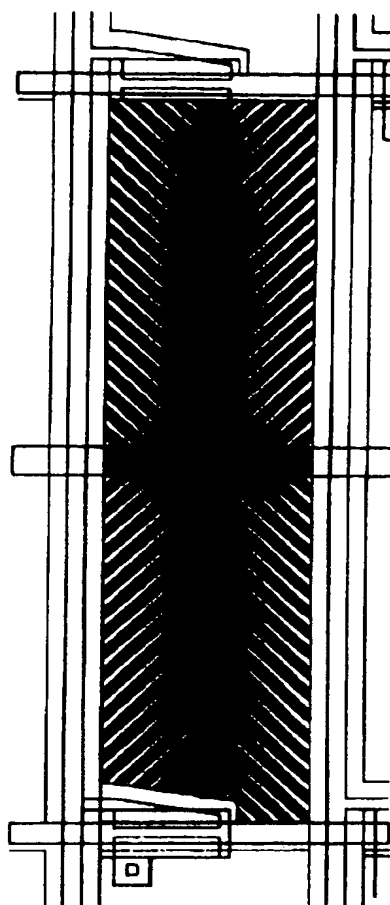


FIG. 27B

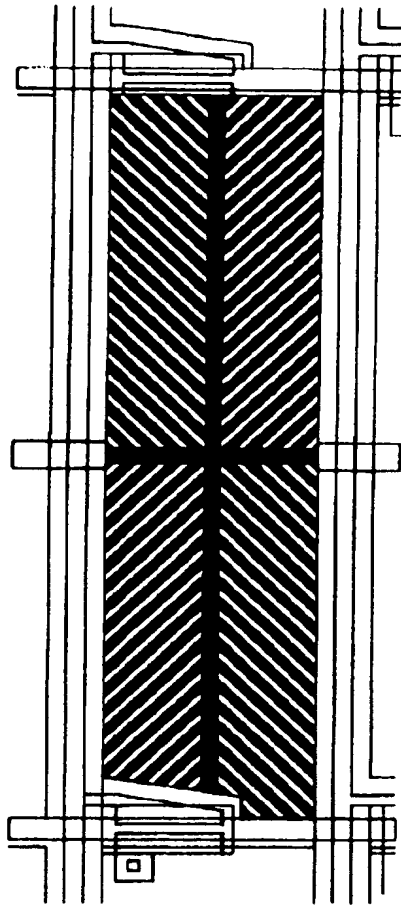


FIG. 28

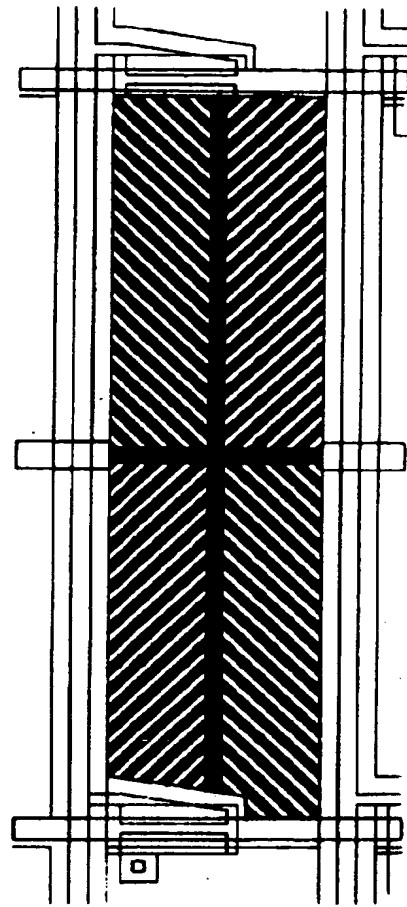


FIG. 29

FIG. 30A

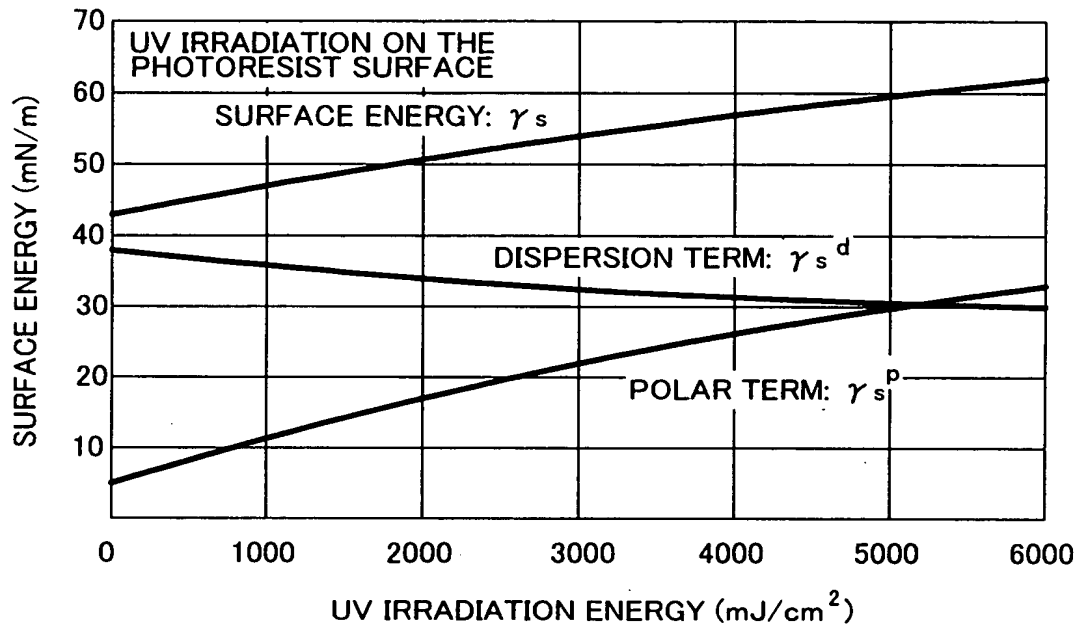


FIG. 30B

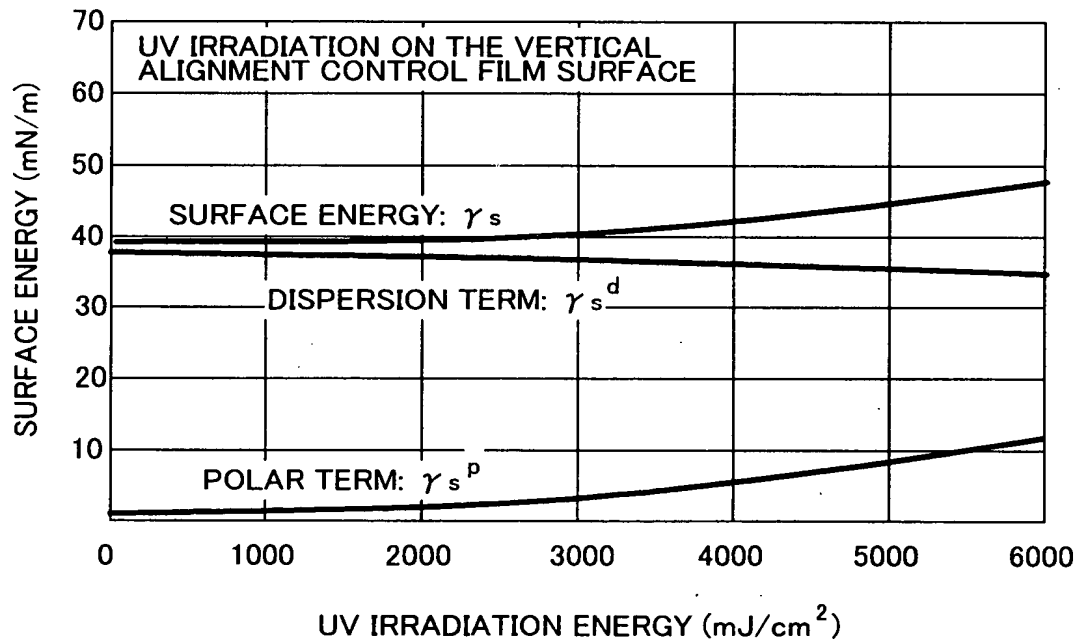


FIG. 31

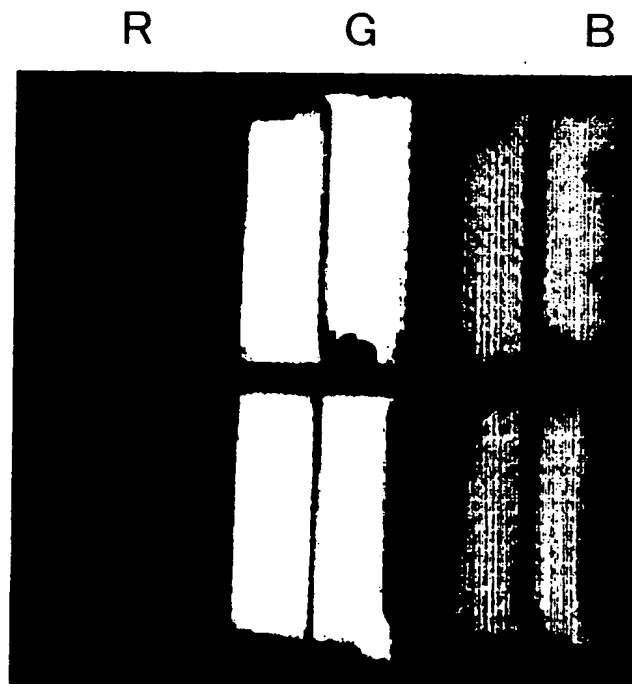
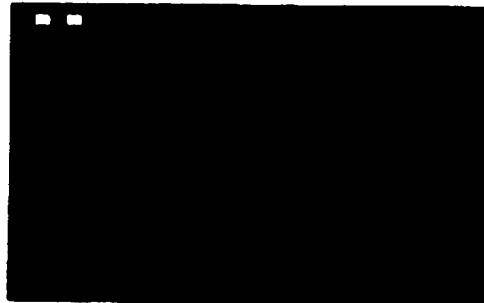
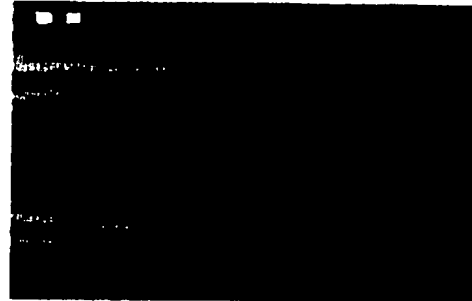


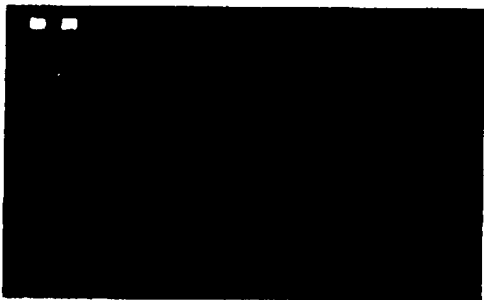
FIG. 32



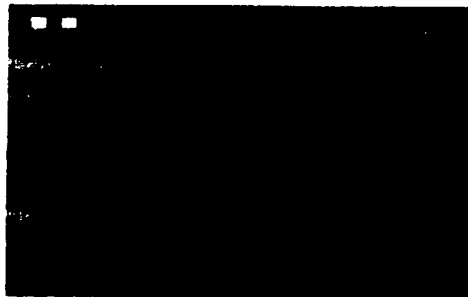
0ms



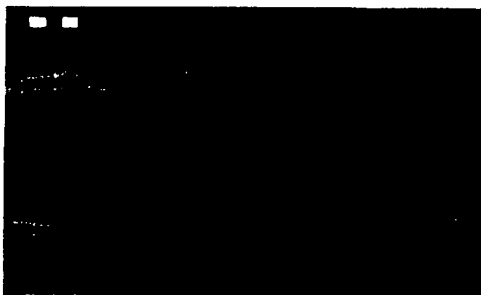
80ms



8ms



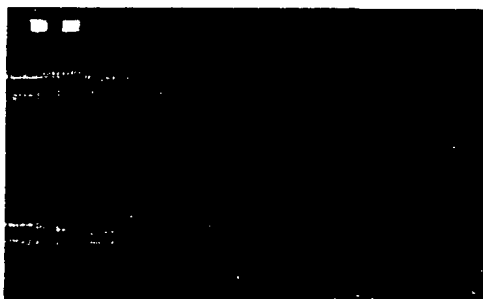
160ms



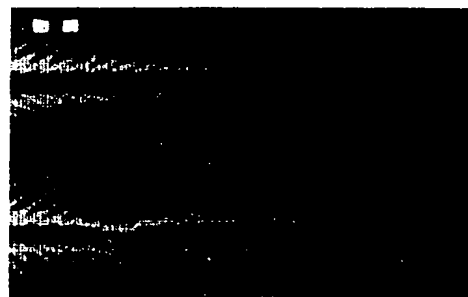
16ms



320ms



40ms



480ms

FIG. 33

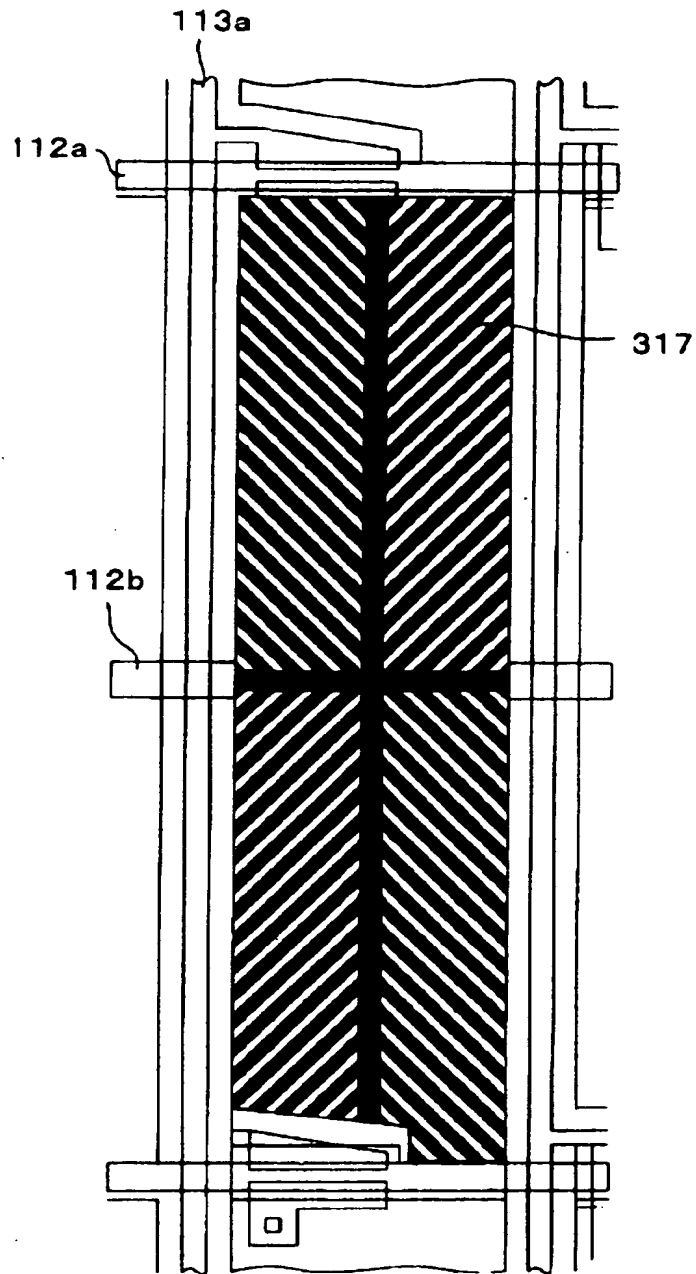


FIG. 34



FIG. 35A

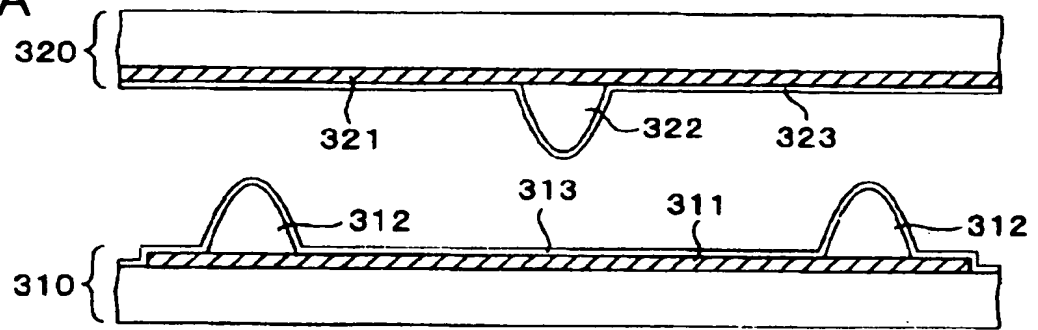


FIG. 35B

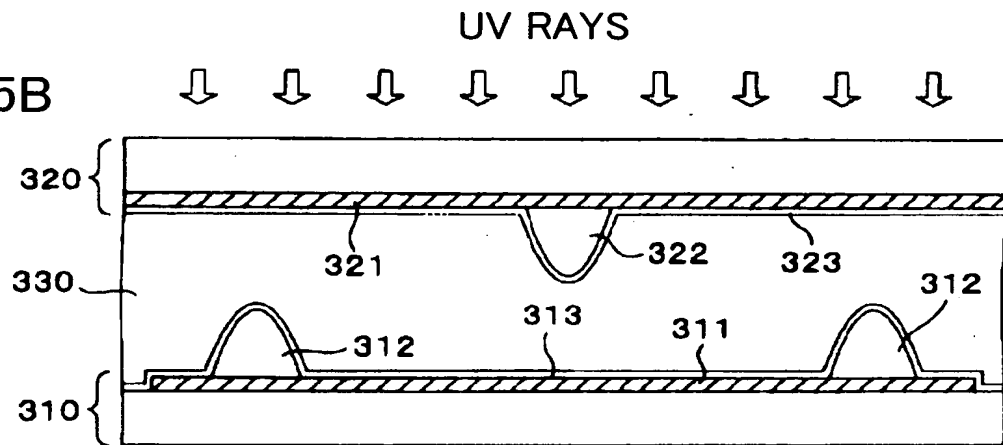


FIG. 36

ADDITION OF BIFUNCTIONAL MONOMER

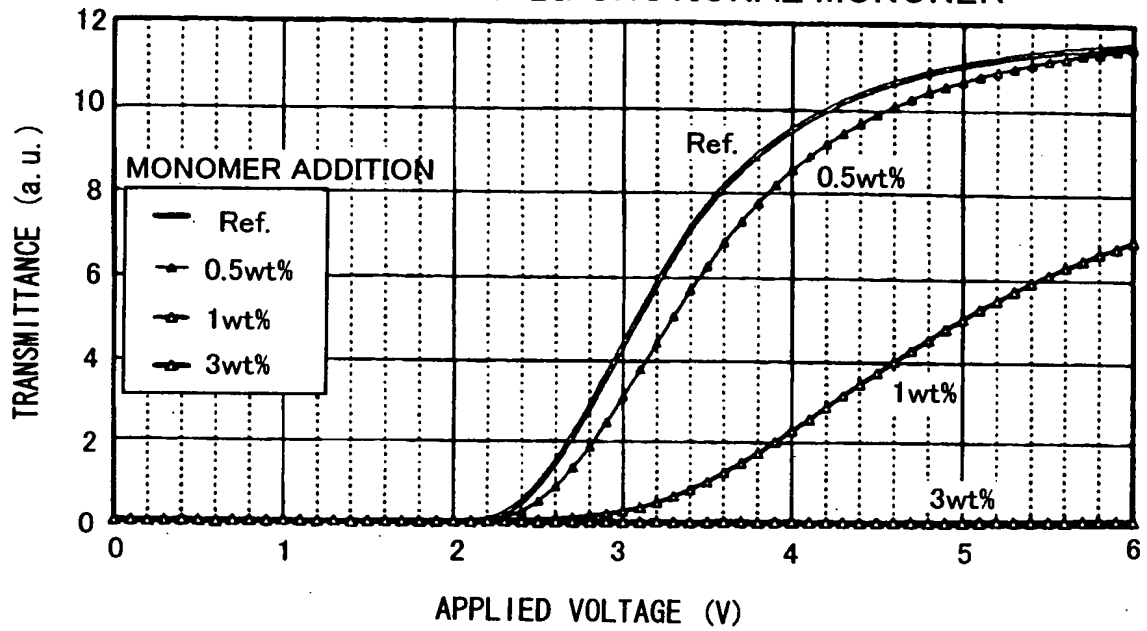


FIG. 37

ADDITION OF MONOFUNCTIONAL MONOMER

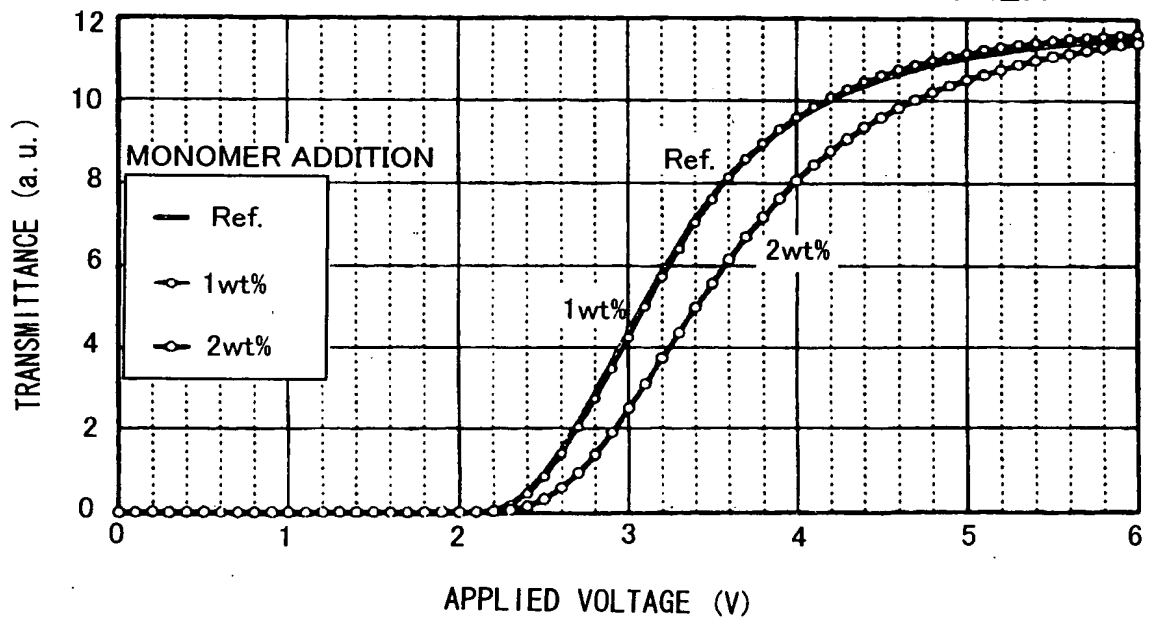
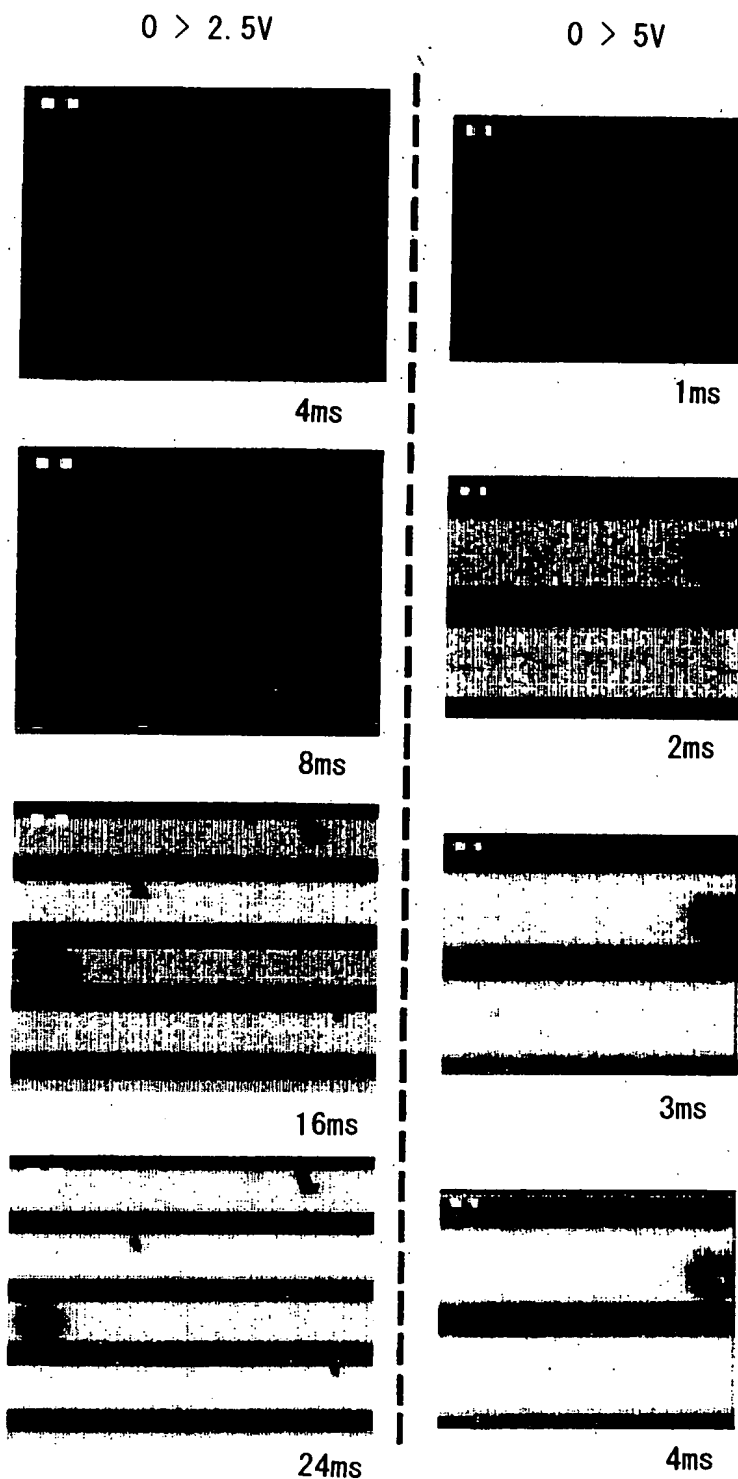


FIG. 38

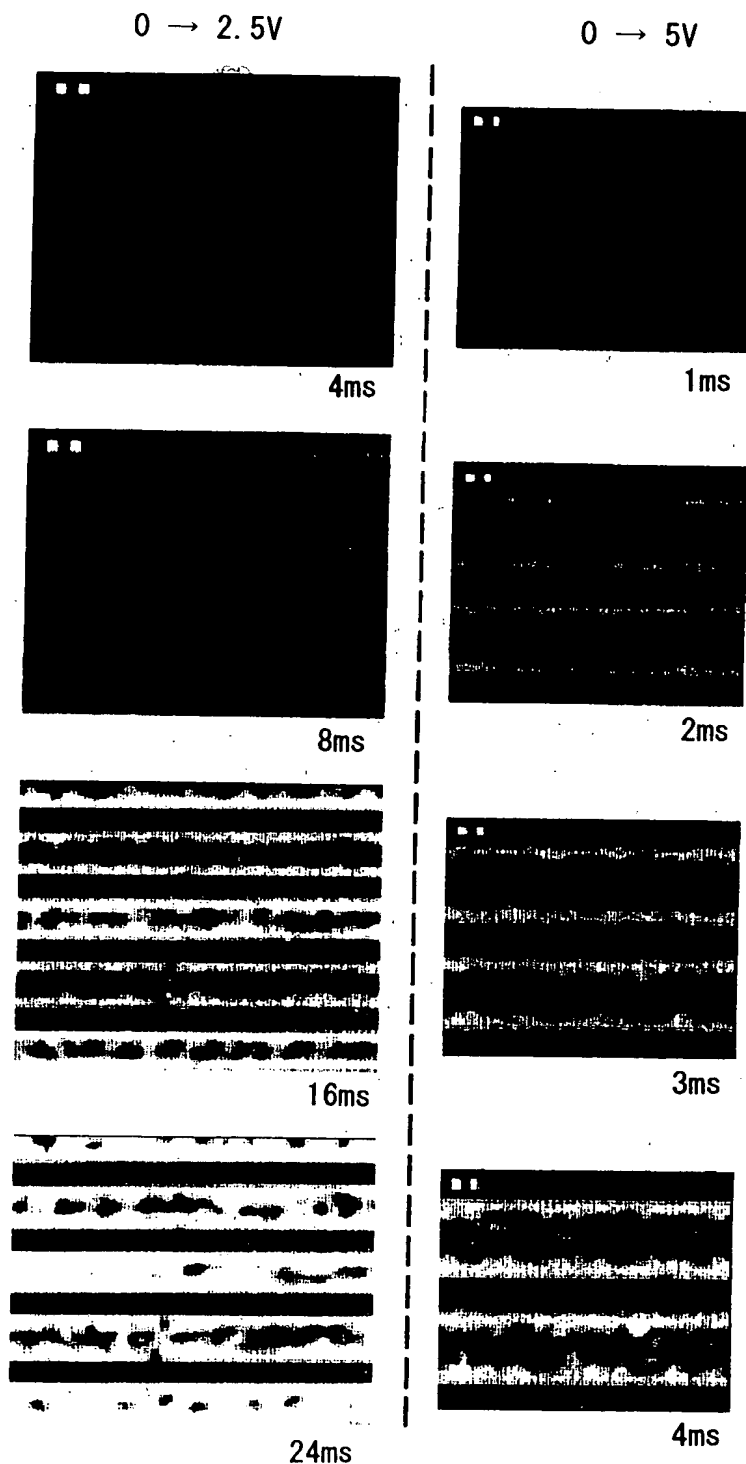
F010702(2wt%)0V-cure 4000mJ/cm²



PROPAGATION MODE AND HIGH RESPONSE RATE

FIG. 39 COMPARATIVE EXAMPLE:
LIQUID CRYSTAL DISPLAY APPARATUS WHEREIN NO POLYMERIZABLE
COMPONENT IS ADDED TO THE LIQUID CRYSTAL

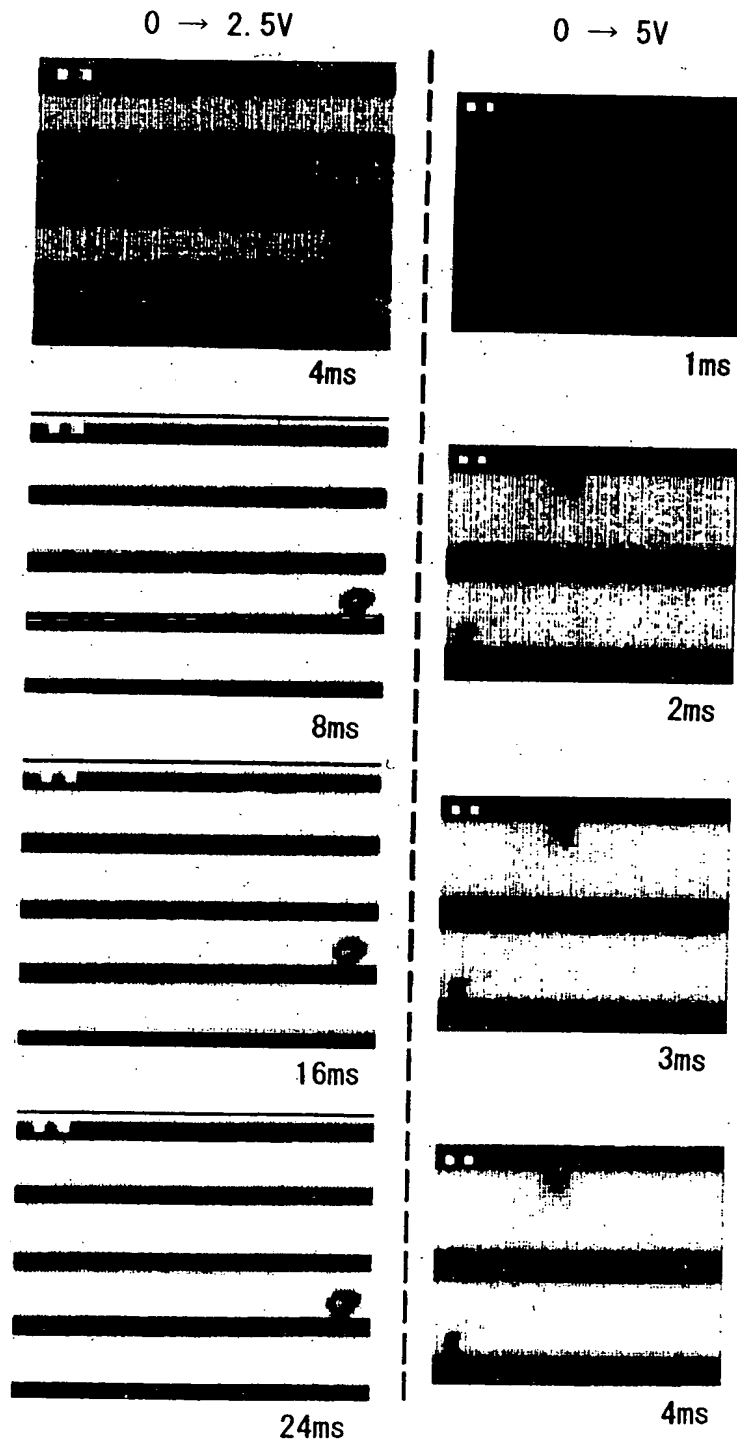
Ref.



PROPAGATION MODE, WITH ϕ BLURRING (SLOW)

FIG. 40 CONVENTIONAL EXAMPLE:
LIQUID CRYSTAL DISPLAY APPARATUS WHEREIN POLYMERIZABLE
COMPONENT ADDED TO THE LIQUID CRYSTAL WAS POLYMERIZED WHEN
VOLTAGE WAS APPLIED

RM84 (5wt%) 5V 4000mJ/cm²



PROPAGATION MODE, WITH ϕ BLURRING (SLOW)

FIG. 41B

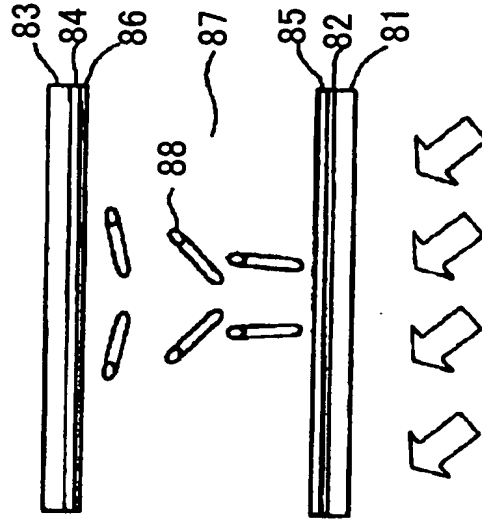


FIG. 41A

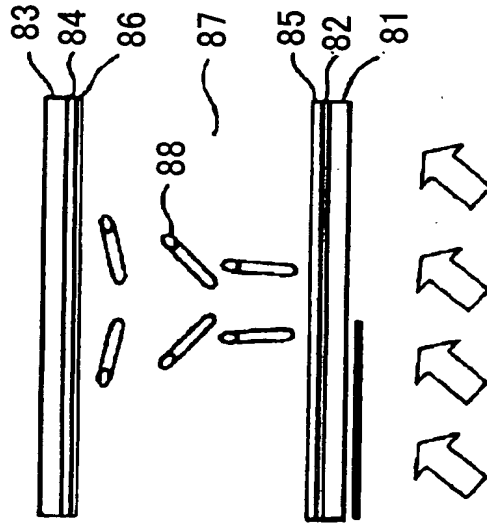


FIG. 42C

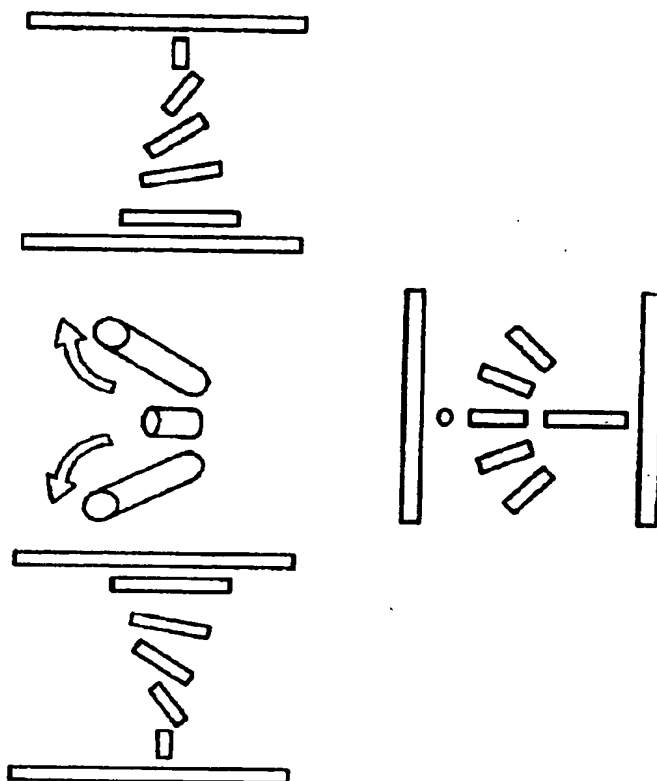


FIG. 42B

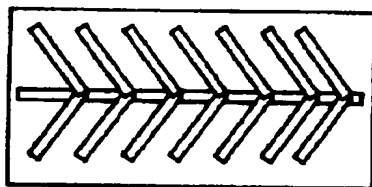


FIG. 42A

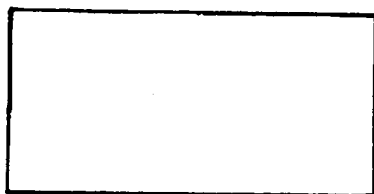


FIG. 43

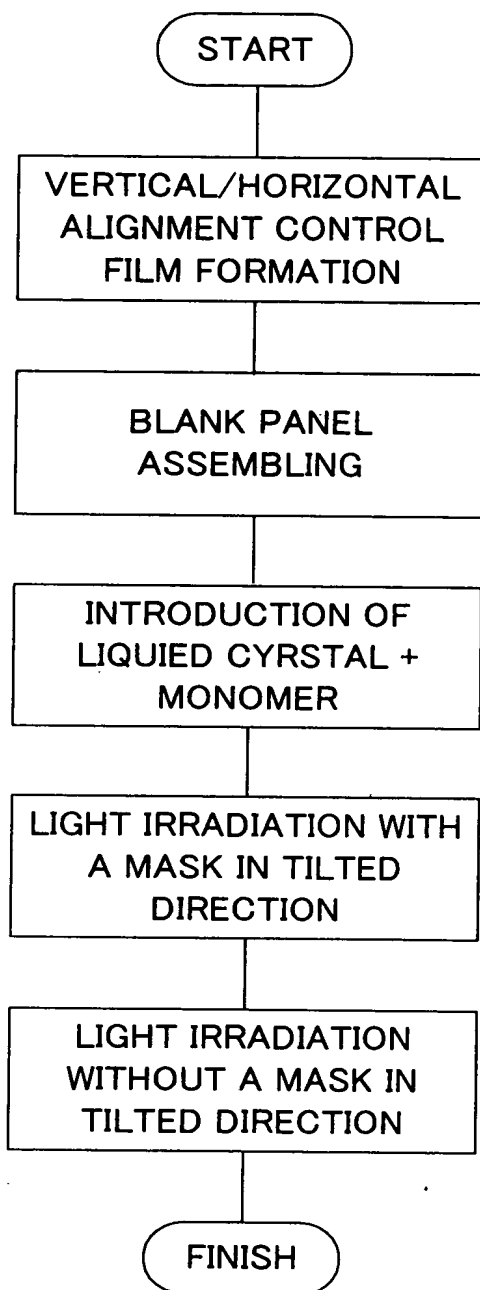


FIG. 44A

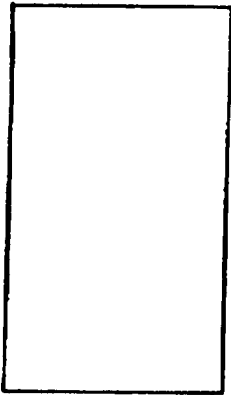


FIG. 44B

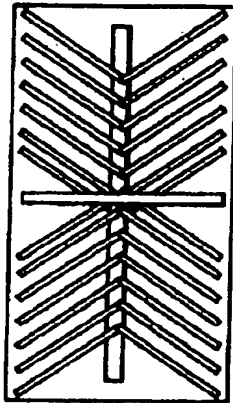


FIG. 44C

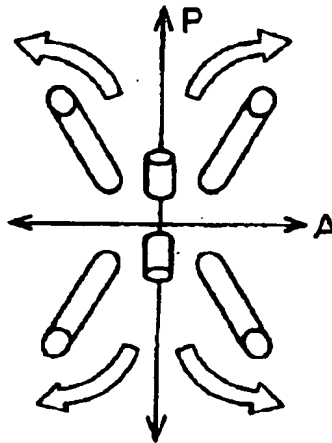
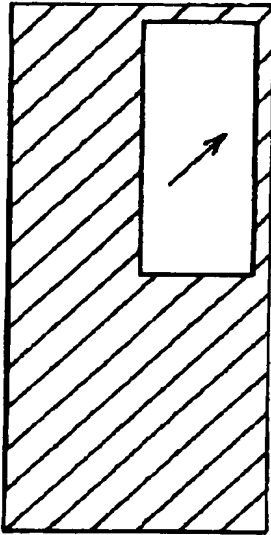
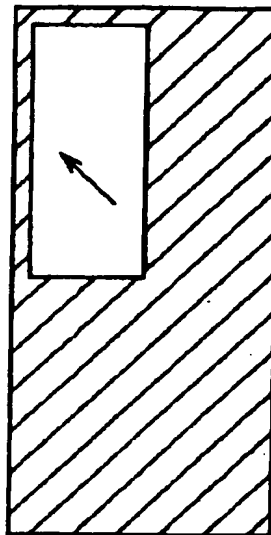


FIG. 45

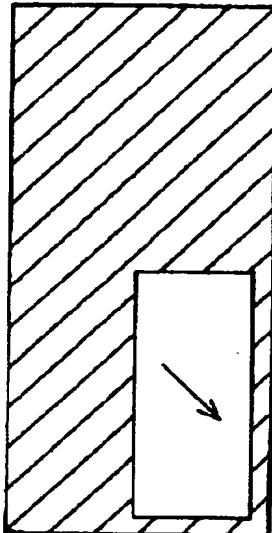
(I)



(II)



(IV)



(III)

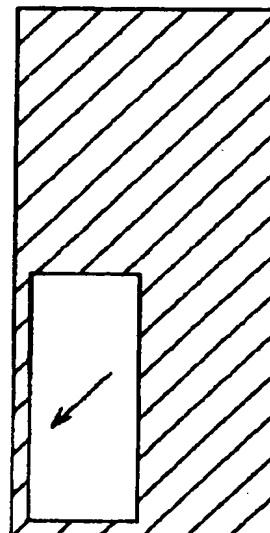


FIG. 46A

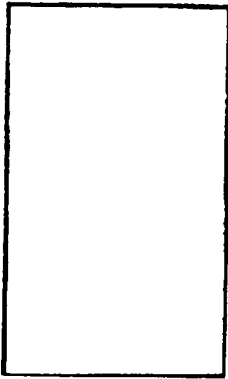


FIG. 46B

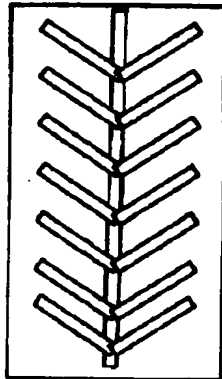


FIG. 46C

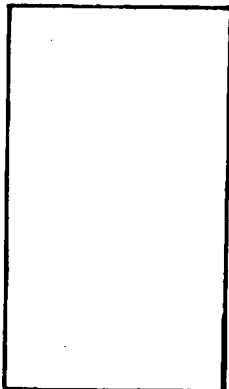


FIG. 47A

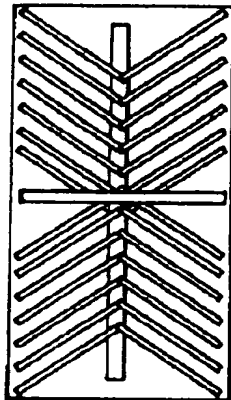


FIG. 47B

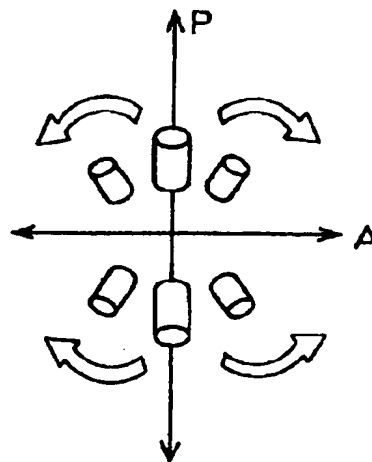


FIG. 47C

FIG. 48A

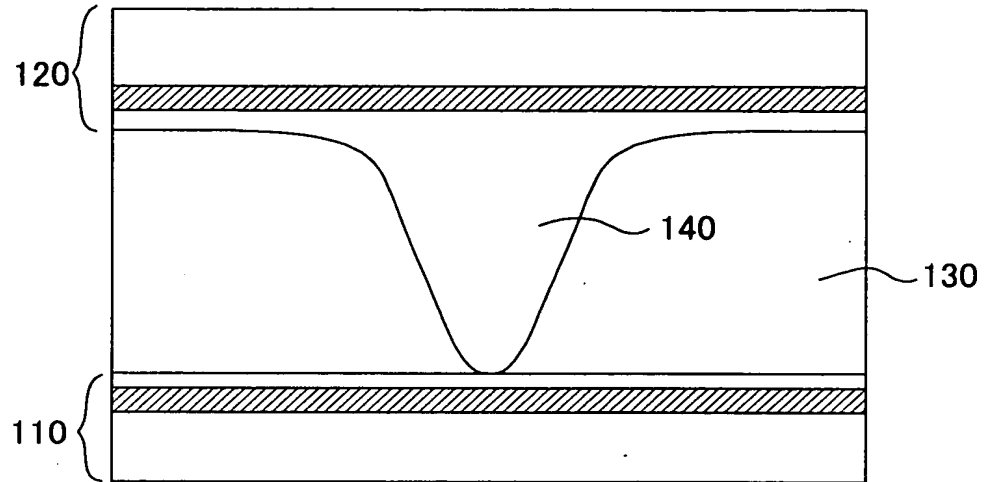


FIG. 48B

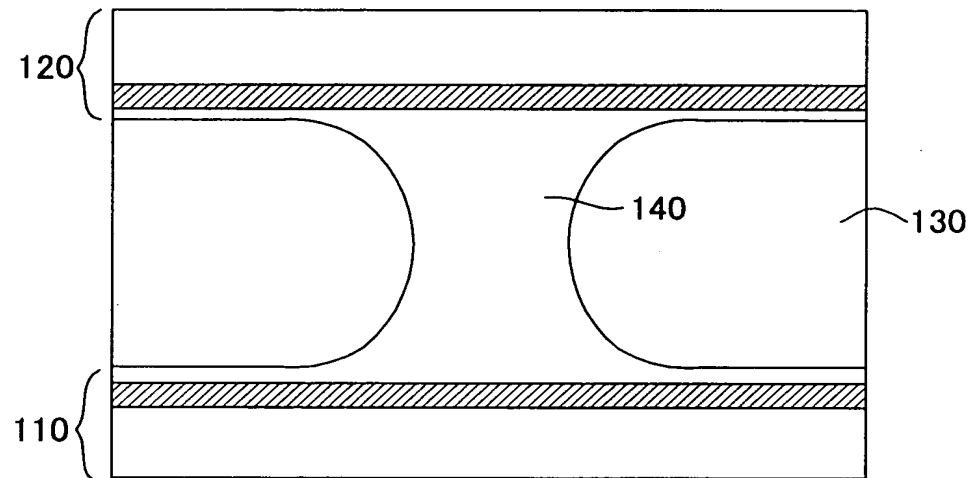


FIG. 49

